



# CALIFORNIA

## Agricultural Bulletin



State of California

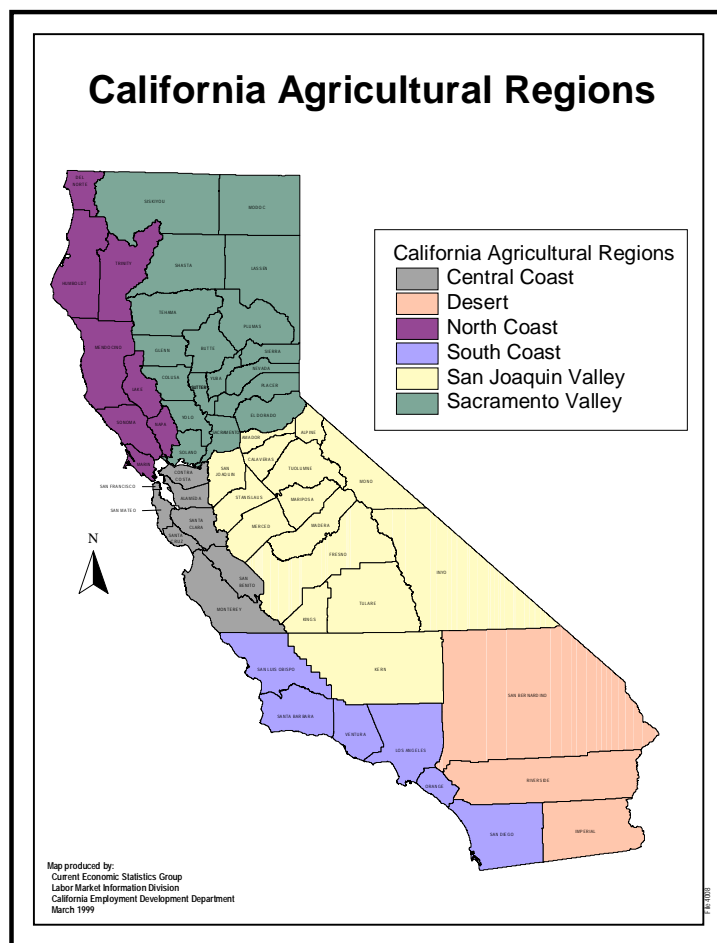
April 1999  
(Internet Version)

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### Agricultural Overview

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

## Introduction

The April 1999 issue is the fourth California Agricultural Bulletin produced since December 1996. Prior to January 1997, the U.S. Department of Agriculture (USDA) and the Employment Development Department (EDD) conducted separate, overlapping agricultural labor surveys.

Beginning with January 1997 data, EDD in cooperation with the USDA and through a grant from the U.S. Department of Labor has instituted new methods to estimate current agricultural employment, as well as earnings and hours worked based on sampling according to a probabilistic model of selection. EDD will continue to benchmark agricultural employment data yearly. As a result of changes in sampling and estimating procedures, farm employment data prior to January 1997 may not be strictly comparable to current estimates.

## Summary

Agricultural employment in California for April 1999 increased 35,000 from the previous month, a gain of 10.8%. The change from March 1998 to April 1998 was an increase of 38,400. Over the month, Production/Crops registered an increase of 11,500 (+6.5%) and Production/Livestock increased 3,100 (+13.3%). Agricultural Services registered an increase of 20,400 (+16.7%). Total California Agricultural Employment for April 1999 decreased 4,500 from the April 1998 level. A gain of 3.0% was registered in Agricultural Production while a decline of 7.0% was seen in Agricultural Services.

The San Joaquin Valley Region registered an increase of 29,900 from March to April. Agricultural Production increased by 6.7% while Agricultural Services increased 37.0% from the previous month.

Rain and wet soil conditions slowed progress in some field activities. Seedbed preparations for corn, cotton, dry beans, and rice continued in the Sacramento and San Joaquin Valley Regions. Workers planted corn, safflower, and new crop sugar beets in the San Joaquin Valley. Tomatoes, honeydew, watermelon and sweet corn were planted in the Sacramento Valley Region. In most areas, aphid and weevil treatments were applied to alfalfa hay fields. Seed alfalfa was mowed and other alfalfa, small grains, and winter forages were cut for hay. Developing sugar beet crops were cultivated, irrigated, and weeded. Melons, sweet corn, and tomatoes were also treated for weeds.

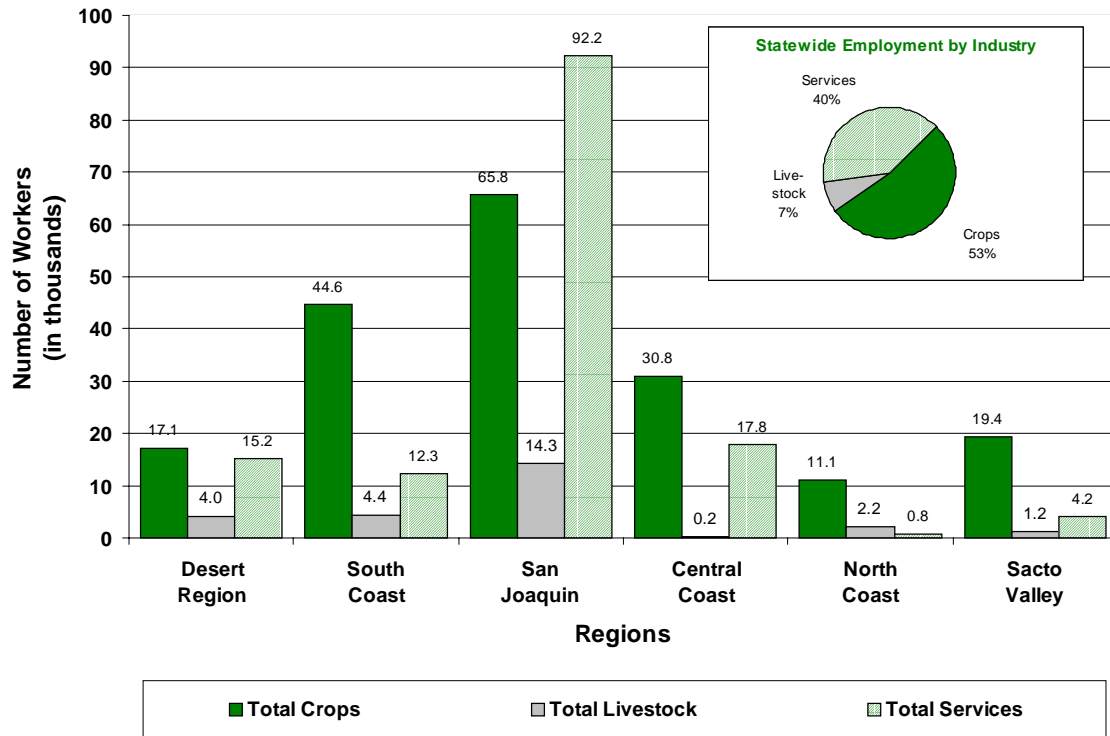
Work crews harvested cauliflower, broccoli, cabbage, spinach, carrots, potatoes, turnips, asparagus, and various greens.

Fruit growers conducted extensive weed control and irrigated vineyards and orchards. Workers were active in stone fruit thinning and citrus fruit was picked in southern California. New crop valencia oranges were picked in the Desert Region.

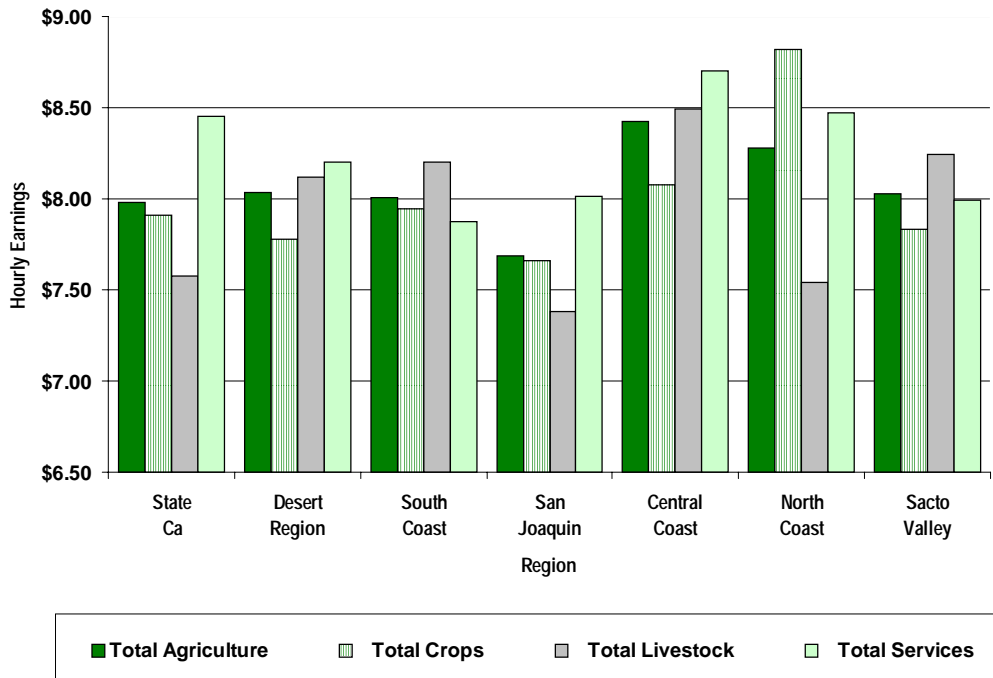
Limited supplemental feeding of cattle continued in the central counties and sheep were moved to spring pastures.

# Agricultural Summary Charts

## Wage and Salary Workers



## Average Hourly Earnings



# CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>358.2</b>	<b>323.2</b>	<b>362.6</b>
<b>Total Agricultural Production/Crops</b>	<b>189.4</b>	<b>177.9</b>	<b>183.1</b>
Cash Grains	2.4	1.8	2.5
Rice	1.4	1.1	1.4
Other Cash Grains	1.0	0.7	1.1
Field Crops Except Grains	13.7	13.4	10.7
Cotton	5.2	4.6	5.8
Other Field Crops	8.5	8.8	4.9
Vegetables and Melons	39.0	45.0	31.5
Total Fruits and Tree Nuts	70.7	52.1	80.2
Berries	16.3	14.6	20.4
Grapes	14.9	17.1	30.4
Tree Nuts	7.9	6.6	6.5
Citrus Fruits	3.3	1.9	4.6
Deciduous Tree Fruit	10.5	7.5	11.4
Other Fruits & Nuts	17.8	4.4	6.9
Total Horticultural Specialties	32.9	29.9	36.6
Ornamental Floral & Nursery	31.6	28.8	31.0
Food Crops Grown Under Cover	1.3	1.1	5.6
General Farm Primarily Crop	30.7	35.7	21.6
<b>Agricultural Production/Livestock</b>	<b>26.3</b>	<b>23.2</b>	<b>26.2</b>
Beef Cattle Feed Lots	0.7	0.7	0.5
Beef Cattle Except Feed Lots	1.0	1.5	3.2
Dairy Farms	11.8	10.4	14.4
Chicken Eggs	1.1	1.9	2.4
Turkey & Turkey Eggs	0.6	0.6	0.8
Other Livestock	11.1	8.1	4.9
<b>Total Agricultural Services</b>	<b>142.5</b>	<b>122.1</b>	<b>153.3</b>
Soil Preparation Services	0.9	0.8	1.9
Crop Services	37.3	34.9	44.2
Plant Cultivate & Protection	4.3	4.4	6.6
Harvest Primarily by Machine	3.8	3.0	5.7
Preparation Services for Market	28.9	27.2	31.3
Cotton Ginning	0.3	0.3	0.6
Total Farm Labor & Management	104.3	86.4	107.2
Farm Labor Contractors	98.6	78.8	99.6
Farm Management Services	5.7	7.6	7.6

Average Hourly Earnings  
(In dollars per hour)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>7.98</b>	<b>8.02</b>	<b>7.48</b>
<b>Total Agricultural Production/Crops</b>	<b>7.91</b>	<b>8.06</b>	<b>7.10</b>
Cash Grains	7.84	8.28	7.25
Rice	8.03	8.28	7.30
Other Cash Grains	7.65	8.28	7.21
Field Crops Except Grains	7.73	8.13	6.83
Cotton	7.54	8.18	6.80
Other Field Crops	7.91	8.08	6.85
Vegetables and Melons	8.17	8.35	7.56
Total Fruits and Tree Nuts	7.68	7.69	6.76
Berries	6.80	6.51	6.65
Grapes	8.28	8.15	6.92
Tree Nuts	7.49	7.85	6.64
Citrus Fruits	8.31	8.03	7.40
Deciduous Tree Fruit	7.10	7.63	6.35
Other Fruits & Nuts	8.12	7.99	6.58
Total Horticultural Specialties	8.15	8.11	7.54
Ornamental Floral & Nursery	8.31	8.25	7.03
Food Crops Grown Under Cover	8.00	7.98	8.05
General Farm Primarily Crop	7.87	7.81	6.69
<b>Agricultural Production/Livestock</b>	<b>7.57</b>	<b>7.53</b>	<b>7.51</b>
Beef Cattle Feed Lots	7.94	7.72	7.15
Beef Cattle Except Feed Lots	8.19	7.81	8.19
Dairy Farms	8.58	8.28	7.79
Chicken Eggs	6.38	6.68	6.92
Turkey & Turkey Eggs	6.10	6.26	7.57
Other Livestock	8.25	8.45	7.42
<b>Total Agricultural Services</b>	<b>8.45</b>	<b>8.46</b>	<b>7.82</b>
Soil Preparation Services	9.17	8.92	8.68
Crop Services	8.52	8.82	7.90
Plant Cultivate & Protection	8.66	8.85	7.45
Harvest Primarily by Machine	8.38	9.37	7.85
Preparation Services for Market	7.76	7.76	7.51
Cotton Ginning	9.30	9.29	8.80
Total Farm Labor & Management	7.67	7.66	6.87
Farm Labor Contractors	7.13	7.53	6.60
Farm Management Services	8.22	7.79	7.14

# CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>48.8</b>	<b>32.1</b>	<b>53.3</b>
<b>Total Agricultural Products/Crops</b>	<b>30.8</b>	<b>18.3</b>	<b>30.8</b>
Cash Grains	0.0	0.1	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.1	0.0
Field Crops Except Grains	1.5	1.4	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	1.5	1.4	0.2
Vegetables and Melons	11.7	5.9	12.0
Total Fruits and Tree Nuts	6.1	4.1	7.4
Berries	5.3	3.7	5.6
Grapes	0.0	0.0	1.1
Tree Nuts	0.5	0.0	0.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.1	0.3	0.3
Other Fruits & Nuts	0.2	0.1	0.2
Total Horticultural Specialties	9.7	4.6	9.3
Ornamental Floral & Nursery	9.4	4.6	7.2
Food Crops Grown Under Cover	0.3	0.0	2.1
General Farm Primarily Crop	1.8	2.2	1.9
<b>Agricultural Production/Livestock</b>	<b>0.2</b>	<b>0.0</b>	<b>1.0</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.4
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.2	0.0	0.3
<b>Total Agricultural Services</b>	<b>17.8</b>	<b>13.8</b>	<b>21.5</b>
Soil Preparation Services	0.1	0.0	0.9
Crop Services	7.5	5.5	9.1
Plant Cultivate & Protection	0.0	0.0	0.9
Harvest Primarily by Machine	1.3	1.5	1.3
Preparation Services for Market	6.2	4.0	6.9
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	10.2	8.3	11.5
Farm Labor Contractors	9.7	8.3	10.9
Farm Management Services	0.5	0.0	0.6

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>8.42</b>	<b>8.42</b>	<b>7.72</b>
<b>Total Agricultural Products/Crops</b>	<b>8.08</b>	<b>8.23</b>	<b>7.52</b>
Cash Grains	na	8.89	na
Rice	na	na	na
Other Cash Grains	na	8.89	na
Field Crops Except Grains	7.37	7.84	6.70
Cotton	na	na	na
Other Field Crops	7.37	7.84	6.70
Vegetables and Melons	9.02	8.90	8.10
Total Fruits and Tree Nuts	8.01	8.21	7.11
Berries	6.77	6.61	6.85
Grapes	na	na	6.70
Tree Nuts	7.92	na	7.40
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.94	8.59	6.82
Other Fruits & Nuts	9.42	9.43	7.77
Total Horticultural Specialties	8.46	8.11	7.71
Ornamental Floral & Nursery	8.46	8.11	7.13
Food Crops Grown Under Cover	8.45	na	8.29
General Farm Primarily Crop	7.54	7.42	7.16
<b>Agricultural Production/Livestock</b>	<b>8.49</b>	<b>na</b>	<b>7.63</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.00
Dairy Farms	na	na	7.90
Chicken Eggs	na	na	7.00
Turkey & Turkey Eggs	na	na	7.60
Other Livestock	8.49	na	7.65
<b>Total Agricultural Services</b>	<b>8.70</b>	<b>8.61</b>	<b>8.00</b>
Soil Preparation Services	9.41	na	8.75
Crop Services	8.77	9.17	8.01
Plant Cultivate & Protection	na	na	7.75
Harvest Primarily by Machine	8.79	9.64	7.88
Preparation Services for Market	8.75	8.70	8.40
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.93	8.05	7.25
Farm Labor Contractors	7.06	8.05	7.15
Farm Management Services	8.79	na	7.35

# DESERT AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>36.3</b>	<b>50.7</b>	<b>34.2</b>
<b>Total Agricultural Production/Crops</b>	<b>17.1</b>	<b>24.8</b>	<b>12.7</b>
Cash Grains	0.0	0.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.1
Field Crops Except Grains	1.5	0.6	1.6
Cotton	0.1	0.0	0.0
Other Field Crops	1.4	0.6	1.6
Vegetables and Melons	3.0	6.4	2.3
Total Fruits and Tree Nuts	5.2	1.2	5.2
Berries	0.0	0.0	0.2
Grapes	0.5	0.7	3.2
Tree Nuts	0.2	0.3	0.1
Citrus Fruits	0.9	0.0	0.5
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	3.6	0.2	1.1
Total Horticultural Specialties	1.2	1.5	3.2
Ornamental Floral & Nursery	1.2	1.3	1.1
Food Crops Grown Under Cover	0.0	0.2	2.1
General Farm Primarily Crop	6.2	15.1	0.3
<b>Agricultural Production/Livestock</b>	<b>4.0</b>	<b>4.0</b>	<b>5.5</b>
Beef Cattle Feed Lots	0.2	0.2	0.3
Beef Cattle Except Feed Lots	0.1	0.4	0.5
Dairy Farms	2.5	1.9	2.8
Chicken Eggs	0.4	0.7	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.8	0.8	0.7
<b>Total Agricultural Services</b>	<b>15.2</b>	<b>21.9</b>	<b>16.0</b>
Soil Preparation Services	0.3	0.3	0.2
Crop Services	4.4	4.9	6.0
Plant Cultivate & Protection	0.9	0.6	0.8
Harvest Primarily by Machine	0.0	0.1	1.6
Preparation Services for Market	3.5	4.2	3.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	10.5	16.7	9.8
Farm Labor Contractors	9.5	15.4	9.0
Farm Management Services	1.0	1.3	0.8

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>8.03</b>	<b>7.88</b>	<b>7.20</b>
<b>Total Agricultural Production/Crops</b>	<b>7.78</b>	<b>7.65</b>	<b>6.79</b>
Cash Grains	na	na	6.90
Rice	na	na	na
Other Cash Grains	na	na	6.90
Field Crops Except Grains	7.51	8.37	6.67
Cotton	6.65	na	na
Other Field Crops	8.36	8.37	6.67
Vegetables and Melons	7.21	6.98	6.56
Total Fruits and Tree Nuts	7.86	7.85	6.41
Berries	na	na	6.25
Grapes	8.44	7.19	6.52
Tree Nuts	6.81	7.73	6.15
Citrus Fruits	7.44	na	7.30
Deciduous Tree Fruit	na	na	6.25
Other Fruits & Nuts	8.73	8.64	6.00
Total Horticultural Specialties	8.54	8.37	7.18
Ornamental Floral & Nursery	8.54	8.73	6.30
Food Crops Grown Under Cover	na	8.00	8.05
General Farm Primarily Crop	7.79	6.70	7.00
<b>Agricultural Production/Livestock</b>	<b>8.12</b>	<b>7.88</b>	<b>7.58</b>
Beef Cattle Feed Lots	6.92	6.73	7.00
Beef Cattle Except Feed Lots	8.54	6.92	8.00
Dairy Farms	9.68	9.18	9.10
Chicken Eggs	6.70	7.15	6.72
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.74	9.42	7.10
<b>Total Agricultural Services</b>	<b>8.20</b>	<b>8.10</b>	<b>7.22</b>
Soil Preparation Services	9.65	8.66	8.47
Crop Services	7.83	8.53	6.65
Plant Cultivate & Protection	8.68	8.88	6.75
Harvest Primarily by Machine	na	9.75	6.46
Preparation Services for Market	6.98	6.95	6.75
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.12	7.10	6.55
Farm Labor Contractors	7.08	7.30	6.50
Farm Management Services	7.15	6.90	6.60

# NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>14.1</b>	<b>13.2</b>	<b>13.3</b>
<b>Total Agricultural Production/Crops</b>	<b>11.1</b>	<b>9.5</b>	<b>10.0</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.0
Vegetables and Melons	5.6	5.6	0.2
Total Fruits and Tree Nuts	4.6	2.8	7.8
Berries	0.0	0.0	0.0
Grapes	3.9	2.6	6.8
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.5	0.2	0.7
Other Fruits & Nuts	0.2	0.0	0.2
Total Horticultural Specialties	0.8	0.9	1.8
Ornamental Floral & Nursery	0.8	0.9	1.6
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	0.1	0.2	0.2
<b>Agricultural Production/Livestock</b>	<b>2.2</b>	<b>2.0</b>	<b>1.6</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.3	0.2
Dairy Farms	0.9	0.4	0.9
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	1.3	1.3	0.3
<b>Total Agricultural Services</b>	<b>0.8</b>	<b>1.7</b>	<b>1.7</b>
Soil Preparation Services	0.0	0.1	0.0
Crop Services	0.1	0.0	0.2
Plant Cultivate & Protection	0.0	0.0	0.1
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.1	0.0	0.1
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	0.7	1.6	1.5
Farm Labor Contractors	0.0	0.5	0.4
Farm Management Services	0.7	1.1	1.1

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>8.28</b>	<b>8.83</b>	<b>7.49</b>
<b>Total Agricultural Production/Crops</b>	<b>8.82</b>	<b>8.92</b>	<b>7.26</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	na
Cotton	na	na	na
Other Field Crops	na	na	na
Vegetables and Melons	9.83	9.89	8.25
Total Fruits and Tree Nuts	8.38	8.18	7.12
Berries	na	na	na
Grapes	9.58	8.55	8.15
Tree Nuts	na	na	6.88
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.92	7.81	7.10
Other Fruits & Nuts	7.63	na	6.35
Total Horticultural Specialties	8.12	8.04	7.41
Ornamental Floral & Nursery	8.12	8.04	7.07
Food Crops Grown Under Cover	na	na	7.75
General Farm Primarily Crop	8.95	9.55	6.25
<b>Agricultural Production/Livestock</b>	<b>7.54</b>	<b>8.03</b>	<b>7.71</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	8.86	8.40
Dairy Farms	7.39	7.26	6.74
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	7.70
Other Livestock	7.69	7.98	8.00
<b>Total Agricultural Services</b>	<b>8.47</b>	<b>9.53</b>	<b>7.51</b>
Soil Preparation Services	na	9.85	na
Crop Services	7.50	na	7.50
Plant Cultivate & Protection	na	na	na
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	7.50	na	7.50
Cotton Ginning	na	na	na
Total Farm Labor & Management	9.44	9.21	7.53
Farm Labor Contractors	na	8.72	6.50
Farm Management Services	9.44	9.69	8.55

na = not available

# SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>61.3</b>	<b>66.4</b>	<b>64.6</b>
<b>Total Agricultural Production/Crops</b>	<b>44.6</b>	<b>48.0</b>	<b>48.2</b>
Cash Grains	0.1	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.1	0.1
Field Crops Except Grains	0.3	0.6	0.3
Cotton	0.0	0.0	0.1
Other Field Crops	0.3	0.6	0.2
Vegetables and Melons	7.8	8.7	7.1
Total Fruits and Tree Nuts	17.3	14.8	20.0
Berries	11.0	10.9	14.5
Grapes	0.8	0.8	1.8
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	1.1	1.0	1.9
Deciduous Tree Fruit	0.1	0.1	0.1
Other Fruits & Nuts	4.3	2.0	1.6
Total Horticultural Specialties	15.5	18.2	16.9
Ornamental Floral & Nursery	15.1	17.8	16.0
Food Crops Grown Under Cover	0.4	0.4	0.9
General Farm Primarily Crop	3.6	5.6	3.8
<b>Agricultural Production/Livestock</b>	<b>4.4</b>	<b>5.4</b>	<b>1.9</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.1	0.3	0.3
Dairy Farms	0.0	0.3	0.2
Chicken Eggs	0.2	0.6	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	4.1	4.2	1.0
<b>Total Agricultural Services</b>	<b>12.3</b>	<b>13.0</b>	<b>14.5</b>
Soil Preparation Services	0.0	0.0	0.2
Crop Services	1.9	2.7	3.4
Plant Cultivate & Protection	0.2	0.1	0.5
Harvest Primarily by Machine	0.2	0.2	0.6
Preparation Services for Market	1.5	2.4	2.3
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	10.4	10.3	10.9
Farm Labor Contractors	9.6	9.2	9.8
Farm Management Services	0.8	1.1	1.1

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>8.01</b>	<b>8.18</b>	<b>7.46</b>
<b>Total Agricultural Production/Crops</b>	<b>7.94</b>	<b>8.17</b>	<b>7.07</b>
Cash Grains	8.76	8.62	6.75
Rice	na	na	na
Other Cash Grains	8.76	8.62	6.75
Field Crops Except Grains	7.61	8.29	6.80
Cotton	na	na	6.80
Other Field Crops	7.61	8.29	6.80
Vegetables and Melons	7.48	9.18	7.30
Total Fruits and Tree Nuts	8.11	7.73	6.82
Berries	6.83	6.40	7.01
Grapes	9.62	9.42	6.65
Tree Nuts	na	na	6.75
Citrus Fruits	9.19	8.38	7.75
Deciduous Tree Fruit	5.98	6.23	6.00
Other Fruits & Nuts	8.92	8.21	6.76
Total Horticultural Specialties	8.33	8.13	7.58
Ornamental Floral & Nursery	7.96	7.69	6.71
Food Crops Grown Under Cover	8.69	8.57	8.45
General Farm Primarily Crop	7.37	7.10	6.85
<b>Agricultural Production/Livestock</b>	<b>8.20</b>	<b>8.29</b>	<b>7.76</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.41	8.14	7.70
Dairy Farms	8.49	8.49	8.38
Chicken Eggs	5.80	6.46	6.85
Turkey & Turkey Eggs	na	na	na
Other Livestock	10.10	10.05	8.10
<b>Total Agricultural Services</b>	<b>7.88</b>	<b>8.09</b>	<b>7.55</b>
Soil Preparation Services	na	na	8.25
Crop Services	8.05	8.54	7.67
Plant Cultivate & Protection	8.45	8.98	7.40
Harvest Primarily by Machine	7.75	8.75	7.70
Preparation Services for Market	7.95	7.90	7.90
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.71	7.65	6.73
Farm Labor Contractors	7.47	7.45	6.80
Farm Management Services	7.94	7.84	6.65

na = not available



# SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>172.3</b>	<b>142.4</b>	<b>175.2</b>
<b>Total Agricultural Production/Crops</b>	<b>65.8</b>	<b>64.6</b>	<b>66.6</b>
Cash Grains	0.9	0.3	0.7
Rice	0.3	0.0	0.1
Other Cash Grains	0.6	0.3	0.6
Field Crops Except Grains	7.8	10.2	7.8
Cotton	5.1	4.6	5.7
Other Field Crops	2.7	5.6	2.1
Vegetables and Melons	8.6	15.8	8.2
Total Fruits and Tree Nuts	27.3	23.6	33.8
Berries	0.0	0.0	0.1
Grapes	9.3	13.0	16.7
Tree Nuts	4.2	3.6	3.9
Citrus Fruits	1.3	0.9	2.2
Deciduous Tree Fruit	8.1	4.3	7.9
Other Fruits & Nuts	4.4	1.8	3.0
Total Horticultural Specialties	4.5	3.7	3.6
Ornamental Floral & Nursery	4.5	3.7	3.4
Food Crops Grown Under Cover	0.6	0.5	0.2
General Farm Primarily Crop	16.7	11.0	12.5
<b>Agricultural Production/Livestock</b>	<b>14.3</b>	<b>10.5</b>	<b>14.5</b>
Beef Cattle Feed Lots	0.4	0.5	0.2
Beef Cattle Except Feed Lots	0.2	0.2	1.2
Dairy Farms	8.2	7.6	9.9
Chicken Eggs	0.5	0.6	0.6
Turkey & Turkey Eggs	0.6	0.6	0.6
Other Livestock	4.4	1.0	2.0
<b>Total Agricultural Services</b>	<b>92.2</b>	<b>67.3</b>	<b>94.1</b>
Soil Preparation Services	0.5	0.4	0.5
Crop Services	21.7	19.6	23.2
Plant Cultivate & Protection	2.8	3.2	3.7
Harvest Primarily by Machine	2.3	1.0	2.0
Preparation Services for Market	16.3	15.1	16.9
Cotton Ginning	0.3	0.3	0.6
Total Farm Labor & Management	70.0	47.3	70.4
Farm Labor Contractors	67.3	43.3	66.8
Farm Management Services	2.7	4.0	3.6

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>7.69</b>	<b>7.64</b>	<b>7.56</b>
<b>Total Agricultural Production/Crops</b>	<b>7.66</b>	<b>7.63</b>	<b>6.99</b>
Cash Grains	7.38	7.80	7.35
Rice	7.63	na	7.00
Other Cash Grains	7.13	7.80	7.70
Field Crops Except Grains	8.07	7.85	6.80
Cotton	8.43	8.18	6.80
Other Field Crops	7.70	7.51	6.80
Vegetables and Melons	7.58	7.18	7.20
Total Fruits and Tree Nuts	7.31	7.63	6.44
Berries	na	na	6.50
Grapes	7.24	7.43	6.50
Tree Nuts	7.29	7.94	6.35
Citrus Fruits	8.31	7.68	7.15
Deciduous Tree Fruit	6.60	8.11	5.60
Other Fruits & Nuts	7.10	6.99	6.55
Total Horticultural Specialties	7.81	7.79	7.72
Ornamental Floral & Nursery	8.77	8.20	7.66
Food Crops Grown Under Cover	6.85	7.37	7.78
General Farm Primarily Crop	7.81	7.54	6.42
<b>Agricultural Production/Livestock</b>	<b>7.39</b>	<b>7.31</b>	<b>7.55</b>
Beef Cattle Feed Lots	8.24	8.71	7.30
Beef Cattle Except Feed Lots	7.26	6.92	8.75
Dairy Farms	8.61	7.95	7.91
Chicken Eggs	6.64	6.42	7.10
Turkey & Turkey Eggs	6.10	6.26	7.40
Other Livestock	7.46	7.61	6.82
<b>Total Agricultural Services</b>	<b>8.01</b>	<b>7.98</b>	<b>8.14</b>
Soil Preparation Services	8.44	8.24	9.70
Crop Services	8.43	8.50	8.26
Plant Cultivate & Protection	8.31	8.17	8.10
Harvest Primarily by Machine	8.61	9.10	9.05
Preparation Services for Market	7.50	7.45	7.10
Cotton Ginning	9.30	9.29	8.80
Total Farm Labor & Management	7.17	7.19	6.47
Farm Labor Contractors	6.55	6.86	6.34
Farm Management Services	7.78	7.51	6.60

# SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>24.8</b>	<b>17.9</b>	<b>22.0</b>
<b>Total Agricultural Production/Crops</b>	<b>19.4</b>	<b>12.2</b>	<b>14.8</b>
Cash Grains	1.4	1.3	1.6
Rice	1.1	1.1	1.3
Other Cash Grains	0.3	0.2	0.3
Field Crops Except Grains	2.6	0.6	0.8
Cotton	0.0	0.0	0.0
Other Field Crops	2.6	0.6	0.8
Vegetables and Melons	2.3	2.6	1.7
Total Fruits and Tree Nuts	10.2	5.6	6.0
Berries	0.0	0.0	0.0
Grapes	0.4	0.0	0.8
Tree Nuts	3.0	2.7	2.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	1.7	2.6	2.3
Other Fruits & Nuts	5.1	0.3	0.8
Total Horticultural Specialties	0.6	0.5	1.8
Ornamental Floral & Nursery	0.6	0.5	1.7
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	2.3	1.6	2.9
<b>Agricultural Production/Livestock</b>	<b>1.2</b>	<b>1.3</b>	<b>1.7</b>
Beef Cattle Feed Lots	0.1	0.0	0.0
Beef Cattle Except Feed Lots	0.6	0.3	0.6
Dairy Farms	0.2	0.2	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.3	0.8	0.6
<b>Total Agricultural Services</b>	<b>4.2</b>	<b>4.4</b>	<b>5.5</b>
Soil Preparation Services	0.0	0.0	0.1
Crop Services	1.7	2.2	2.3
Plant Cultivate & Protection	0.4	0.5	0.6
Harvest Primarily by Machine	0.0	0.2	0.2
Preparation Services for Market	1.3	1.5	1.5
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	2.5	2.2	3.1
Farm Labor Contractors	2.5	2.1	2.7
Farm Management Services	0.0	0.1	0.4

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Apr 1999	Mar 1999	Apr 1998
<b>Total Agriculture</b>	<b>8.03</b>	<b>8.02</b>	<b>7.34</b>
<b>Total Agricultural Production/Crops</b>	<b>7.84</b>	<b>8.16</b>	<b>7.20</b>
Cash Grains	7.75	8.05	7.54
Rice	8.43	8.28	7.60
Other Cash Grains	7.07	7.81	7.47
Field Crops Except Grains	8.51	8.39	7.30
Cotton	na	na	na
Other Field Crops	8.51	8.39	7.30
Vegetables and Melons	7.88	7.96	7.95
Total Fruits and Tree Nuts	7.10	7.33	6.42
Berries	na	na	na
Grapes	6.53	na	7.00
Tree Nuts	7.93	7.88	6.30
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.06	7.41	6.35
Other Fruits & Nuts	6.89	6.69	6.03
Total Horticultural Specialties	8.00	8.71	7.67
Ornamental Floral & Nursery	8.00	8.71	7.33
Food Crops Grown Under Cover	na	na	8.00
General Farm Primarily Crop	7.77	8.52	6.45
<b>Agricultural Production/Livestock</b>	<b>8.25</b>	<b>7.98</b>	<b>7.29</b>
Beef Cattle Feed Lots	8.66	na	na
Beef Cattle Except Feed Lots	8.55	8.23	8.30
Dairy Farms	8.75	8.50	6.73
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.02	7.20	6.85
<b>Total Agricultural Services</b>	<b>8.00</b>	<b>7.92</b>	<b>7.52</b>
Soil Preparation Services	na	na	8.25
Crop Services	8.52	8.93	7.61
Plant Cultivate & Protection	9.19	9.37	7.27
Harvest Primarily by Machine	na	9.60	8.15
Preparation Services for Market	7.85	7.82	7.40
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.47	6.91	6.70
Farm Labor Contractors	7.47	6.81	6.32
Farm Management Services	na	7.00	7.07

## DATA NOTES

### Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12<sup>th</sup> calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

### Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **Agricultural Services employment data have been adjusted to reflect a recalculation of the survey sample results. Historical trend information was used to adjust sample data because of a low response rate.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between regional current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.
- Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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